

ABSTRACT

An object of the present invention is to provide a filter cartridge having an high filtering accuracy, a long filter life and a good liquid-passing property, in which an initial trapped particle diameter little changes, a pressure loss is small and neither bubbling nor falling of the filter material is observed. Such a filter cartridge is obtained by a production process, which comprises winding a non-woven fabric strip comprising a thermoplastic fiber around a perforated cylinder in a twill form, wherein a non-woven fabric strip satisfies the following equation (A):

$$\log_{10} Y < 3.75 - 0.6 (\log_{10} X) \quad (A)$$

wherein X (cm³/cm²/sec) is an airflow amount of the non-woven fabric strip, and Y (g/m²) is a basis weight thereof; or a production process, which comprises winding in a twill form, wherein a number (W) of winding a non-woven fabric strip around a perforated cylinder from one end to the other end is one to 10 per a length of 250 mm in the perforated cylinder.

"Express Mail" mailing label number 7L815.538393US
Date of Deposit April 8, 2001
I hereby certify that this paper or fee is being deposited
with the United States Postal Service "Express Mail Post
Office to Addressee" service under 37 CFR 1.10 on the
date indicated above and is addressed to: Commissioner
of Patents and Trademarks, Washington, D.C. 20231.
Yolanda Gray
Yolanda Gray